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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/662,779	09/15/2003	Kent E. Peterson	NORTE-500A	2186
7	7590 04/28/2005		EXAM	INER
Bruce B. Brunda			JONES, STEPHEN E	
STETINA BRUNDAGARRED & BRUCKER Suite 250			ART UNIT	PAPER NUMBER
75 Enterprise Aliso Viejo, CA 92656			2817	
			DATE MAILED: 04/28/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/662,779	PETERSON, KENT E.				
Office Action Summary	Examiner	Art Unit				
	Stephen E. Jones	2817				
The MAILING DATE of this communication a						
Period for Reply	, , , , , , , , , , , , , , , , , , ,					
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a r  - If NO period for reply is specified above, the maximum statutory perions  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days od will apply and will expire SIX (6) MONTHS from tute, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 22	March 2005.					
	<u> </u>					
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) <u>1-33</u> is/are pending in the application 4a) Of the above claim(s) <u>9-17 and 25-33</u> is/ 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-8 and 18-24</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) <u>1-33</u> are subject to restriction and/or	are withdrawn from consideration.					
Application Papers						
9) The specification is objected to by the Exami	iner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ a	ccepted or b) objected to by the E	Examiner.				
Applicant may not request that any objection to the	he drawing(s) be held in abeyance. See	∍ 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corr		•				
Priority under 35 U.S.C. § 119	-					
12) Acknowledgment is made of a claim for forei  a) All b) Some * c) None of:  1. Certified copies of the priority docume  2. Certified copies of the priority docume  3. Copies of the certified copies of the priority docume  application from the International Bure  * See the attached detailed Office action for a least content of the priority documents.	ents have been received. ents have been received in Applicati rionty documents have been receive eau (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)	,					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date (2/15/03	Paper No(s)/Mail Da  5) Notice of Informal P  6) Other:	ate Patent Application (PTO-152)				

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#### **DETAILED ACTION**

## Election/Restrictions

Applicant's election with traverse of species I (Fig. 2) in the reply filed on 3/22/05 is acknowledged. The traversal is on the ground(s) that the species would not present a serious burden. This is not found persuasive because the numerous nonobvious variants between the species presents a burden in both search and examination. Also, it is MPEP 809.02 (a) which describes the proper format of a species restriction as the examiner has presented in the restriction requirement.

The requirement is still deemed proper and is therefore made FINAL.

Accordingly, Claims 9-17 and 25-33 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 3/22/05.

#### Claim Objections

1. Claim 1 is objected to because of the following informalities:

On line 13, the phrase "to said" is written twice consecutively.

Appropriate correction is required.

# Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-5 and 18-21 are rejected under 35 U.S.C. 102(b) as being anticipated by White.

White teaches an interconnect including: first and second conductive transmission lines having tapered steps and the other edges are parallel in the same manner as the present invention (Claim 4, 20, 21); inherently the narrowing line width increases the impedance of the line as is a fundamental property of transmission lines (Claim 3); conductive wires are connecting the transmission lines at equally spaced intervals (i.e. terminals) (see Fig. 1) (Claims 2, 5, 19); ports (Pout, Pin) are provided to the transmission lines (Claim 1); and inherently the interconnection functions equivalently to the present invention, especially since it structurally the same as the presently claimed structure (Claim 18).

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 6-8 and 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over White in view of Osterwalder and Applicant's admitted prior art Fig. 1 (AAPA).

White teaches an interconnection having tapered stepped lines as described above (Claims 8, 24). However, White does not explicitly teach that the two

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transmission lines are on two substrates along edges with a gap in between (Claims 6, 22) with the interconnect element bondwires spanning the gap (Claims 7, 23).

Osterwalder teaches a similar interconnect structure to White and teaches using separate substrates for the two transmission lines (e.g. see Col. 2, lines 40-46).

The AAPA teaches providing interconnections along the edge of the substrates with the wires across the gap.

It would have been considered obvious to one of ordinary skill in the art to have provided the two White transmission lines on separate substrates (instead of a single substrate) such as taught by Osterwalder and having the lines along the edge interconnected with bondwires across the gap such as taught by AAPA, because it would have been a mere selection of a well-known art-recognized equivalent/alternative interconnection means between the two transmission lines while providing the advantage of multiple substrates for providing more mounting space for other circuit components when needed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen E. Jones whose telephone number is 571-272-1762. The examiner can normally be reached on Monday through Friday from 8 AM to 4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

STEPHEN E. JONES PRIMARY EXAMINER

SEJ